

LFMWLP120 SERIES

120 Watt Open Frame Power Supply

Measures: 3.00 x 2.00 x 1.18"



Features

- 3" x 2" foot print
- Height 1" above PCB
- 120 Watts with Forced Air Cooling
- Approval to EN60601 3rd Edition, Dual fusing
- Efficiencies upto 93%
- -40 to 70°C operating temperature, Thermal Shut-Down
- Suitable for BF applications
- Means of Protection : 2xMOPP
- >3.00m Hours, Telcordia -SR332-issue 3
- Standby Power < 0.3W
- Class II option available

Electrical Specifications					
Input Voltage	85-264 VAC/390 VDC ⁵ , Universal (see derating under output power)				
Input Frequency	47–63 Hz				
Input Current	115 VAC: 1.2 A max. 230 VAC: 0.65 A max.				
No Load Power	less than 0.3W typical				
Inrush Current	115 VAC – 25 A, 230 VAC – 45 A, 264 VAC – 75 A				
Leakage Current	300 uA Typical, (N.A. For Class II Option) Touch current <100uA				
Efficiency	93%(48V,58V), 91%(24V,30V), 90%(12V,15V)				
Hold-up Time	>10 ms typical				
Power Factor	exceeds 0.95 with Full Load, Active PFC				
Output Power	Forced cooling : 120W with 300LFM (refer mechnical drawing)				
Convection cooling : 100W (for input 100-264 VAC)					
	(de-rate linearly to 80W @ 85VAC)				
Output Voltage Adjustability	+/-3%				
Line Regulation	+/-0.5%				
Load Regulation	+/-1%				
Transient Response	25% step load change, at 0.1A/uS slew rate, 50% duty cycle, 50Hz=4% ,				
	recovery time < 5 ms				
Rise Time	55ms typical				
Set Point Tolerance	+/-1%				
Over Current Protection	>110%				
Over Voltage Protection	110 to 140%, Latch type (AC recycling required)				
Short Circuit Protection	Hiccup mode				
Switching Frequency	60 KHz typical				
Operating Temperature*	-40 to +70°C				
Storage Temperature	-40 to +85°C				
Relative Humidity	5% to 95%, noncondensing				
Altitude	Operating: 16,000 ft.; Nonoperating: 40,000 ft.				
MTBF	>3.00m Hours, Telcordia -SR332-issue 3				
Isolation Voltage	Input to Output – 4000 VAC medical applications.				
	Input to GND - 1500 VAC (Not Applicable For Class II Option)				
	Output to GND- 1500VAC for type BF , 500 VAC for type B (Not Applicable For Class II Option)				
Protection Level	Primary to Secondary: 2 MOPP, Primary to Earth: 1 MOPP, Secondary to Earth: 1 MOPP				



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Model Number	Description	Voltage	Max. Load (Convection)	Max. Load (300 LFM)	Min. Load	Ripple ¹
LFMWLP120-1001	with Screw Terminal	12 V	8.33A	10.0A	0.0 A	1%
LFMWLP120-1001-II	with Screw Terminal	12 V	8.33A	10.0A	0.0 A	1%
LFMWLP120-1301	with Molex Header	12 V	8.33A	10.0A	0.0 A	1%
LFMWLP120-1301-II	with Molex Header	12 V	8.33A	10.0A	0.0 A	1%
LFMWLP120-1002	with Screw Terminal	15 V	6.66A	8.0A	0.0 A	1%
LFMWLP120-1002-II	with Screw Terminal	15 V	6.66A	8.0A	0.0 A	1%
LFMWLP120-1302	with Molex Header	15 V	6.66A	8.0A	0.0 A	1%
LFMWLP120-1302-II	with Molex Header	15 V	6.66A	8.0A	0.0 A	1%
LFMWLP120-1003	with Screw Terminal	24 V	4.16A	5.0A	0.0 A	1%
LFMWLP120-1003-II	with Screw Terminal	24 V	4.16A	5.0A	0.0 A	1%
LFMWLP120-1303	with Molex Header	24 V	4.16A	5.0A	0.0 A	1%
LFMWLP120-1303-II	with Molex Header	24 V	4.16A	5.0A	0.0 A	1%
LFMWLP120-1004	with Screw Terminal	48 V	2.08A	2.5A	0.0 A	1%
LFMWLP120-1004-II	with Screw Terminal	48 V	2.08A	2.5A	0.0 A	1%
LFMWLP120-1304	with Molex Header	48 V	2.08A	2.5A	0.0 A	1%
LFMWLP120-1304-II	with Molex Header	48 V	2.08A	2.5A	0.0 A	1%
LFMWLP120-1005	with Screw Terminal	30 V	3.33A	4.0A	0.0 A	1%
LFMWLP120-1005-II	with Screw Terminal	30 V	3.33A	4.0A	0.0 A	1%
LFMWLP120-1305	with Molex Header	30 V	3.33A	4.0A	0.0 A	1%
LFMWLP120-1305-II	with Molex Header	30 V	3.33A	4.0A	0.0 A	1%
LFMWLP120-1006	with Screw Terminal	58 V	1.72A	2.07A	0.0 A	1%
LFMWLP120-1006-II	with Screw Terminal	58 V	1.72A	2.07A	0.0 A	1%
LFMWLP120-1306	with Molex Header	58 V	1.72A	2.07A	0.0 A	1%
LFMWLP120-1306-II	with Molex Header	58 V	1.72A	2.07A	0.0 A	1%
LFWLP120-CK metal cover kit accessory						

	Connecto	ors	
J1	Pin 1	AC LINE	
	Pin 2	NOT FITTED	
	Pin 3	AC NEUTRAL	
J2	Pin 1,2	-VE	
	Pin 3,4	+VE	

Notes

- 1. Ripple is peak to peak with 20 MHz bandwidth and 10 μ F (Tantalum capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.
- 2. Class II means without input Earth connection.
- 3. Specifications are for nominal input voltage, 25°C unless otherwise stated.
- 4. 40 to 0°C startup is guaranteed with spec deviation in output ripple and voltage regulation.

5. Functional, not approved.





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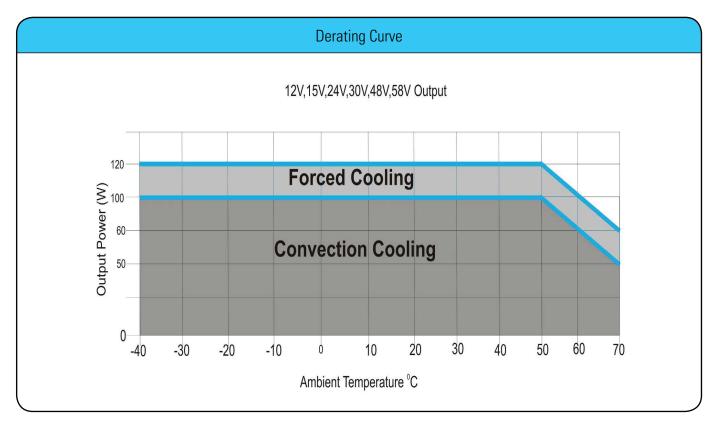
Mechanical Specifications							
AC Input Connector (J1) Option 1	Molex: 39357-0003	Option 2	Molex: 1722861103				
	Тусо-2-1776112-3		(Mating conn: Molex 1722561003)				
DC Output Connector (J2) Option 1	Molex: 39357-0004	Option 2	Molex: 1722861104				
	Тусо-2-1776112-4		(Mating conn: Molex 1722561004)				
Dimensions	3 x 2 x 1.18 inches						
	(76.2 x 50.8 x 30.1mm)						
Weight	150gm approx						
	EMC						
CE Mark	Complies with LVD Directive						
Conducted Emissions	EN55022-B, CISPR22-B, FCC	PART15-B					
Static Discharge	EN61000-4-2, Level-3	EN61000-4-2, Level-3					
RF Field Susceptibility	EN61000-4-3, Level-3	EN61000-4-3, Level-3					
Fast Transients/Bursts	EN61000-4-4, Level-3	EN61000-4-4, Level-3					
Radiated Emissions	Level A radiated,						
	Level B radiated with externa						
	(King core K5B RC 25x12x15-	A in input cable with 5	i Turns)				
Surge Susceptibility	EN61000-4-5, Level-3						
Harmonic Current	EN61000-3-2, Class D						
	Safety						
Safety Standard(s)	IEC/EN 60601-1 Edition 3.0 + AM	1, ANSI/AAMI ES60601-	1 and CAN/CSA -C22.2 No. 60601-1				
Approval Agency	Nemko, UL, C-UL						
Safety File Number(s)	Class-I : UL: Certificate No. 20151106-E173812, CB: Certificate No. N089047, , NEMKO: Certificate No. P1522039						
	Class-II : UL: Certificate No. 2015110	6-E173812, CB: Certificate N	lo. NO89061, NEMKO: Certificate No. P15220387				
Environmental							
RoHS Version	LFMWLP120 series meet RoHS c	ompliance as per europea	an RoHS directive				
	(Directive 2011 / 65 / EU)						

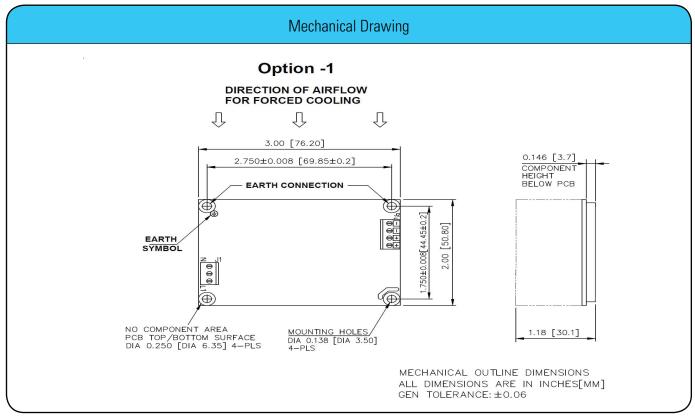




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(866) 588-1750 power@sager.com http://power.sager.com POWER SYSTEMS

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